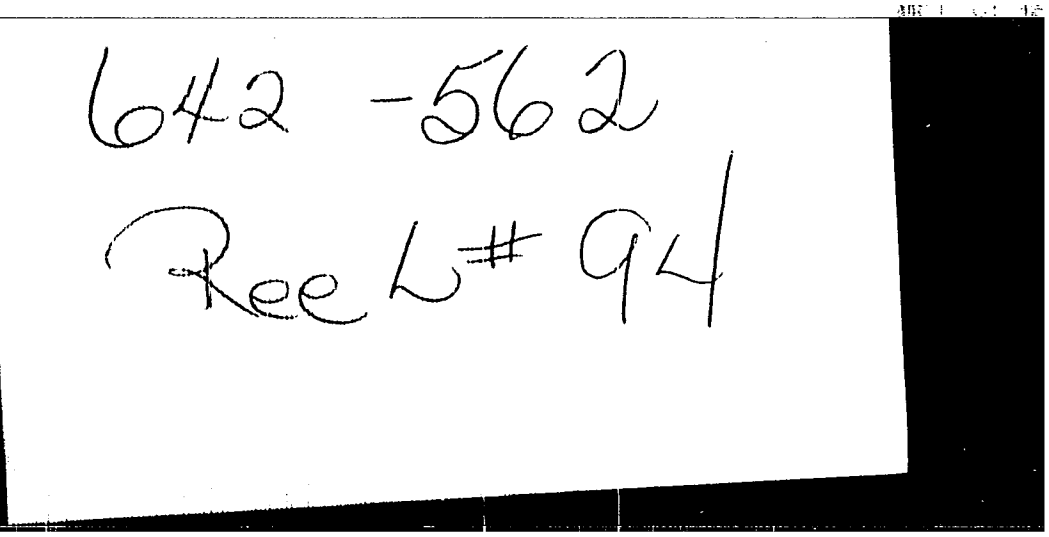
APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4



APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Approximation Method for the Calculation of Optical Anisotropies of Macromolecules, by T. M. Birshteyn, M. V. Vol'kenshteyn, et al, 12 pp.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol IV, No 5, 1962, pp 670-677. 9224831
AEC-ANL-Tr-58

Sci-Phys
Oct 64

267,845

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Synthesis of Polyferroorganosiloxanes and Polyferroaluminoorganosiloxanes, by K. A. Andrianov T. N. Gmina, 9 pp.

RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol. IV, No 5, 1962, pp 676-682.

Navy Tr 3290/NRL 920

Sci - Chem
Jan 63

219,887

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Chromatographic Method of Fractionation.
1. Modified Column for the Fractionation
of Polymers, by O. G. Tarakanova, P. S. Chunev/

RUSSIAN, per., Vysokomolekulyarnye Soyedineniya,
Vol. IV, 1962, pp 663-669.

NLL M 6940
ATS RJ-3829
29,342

Sail - Chem
May 63

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Kargin, V. A., Sogolova, T. L., and Pavlichenko, N. P.
RELAXATION EFFECTS IN CRYSTALLINE POLYOLEFINS. [1963] 5p. 8 refs.
Order from OTS or SLA $1.10 63-14311

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4 [no. 5] p. 738-742.

DESCRIPTORS: *Polymers, *Ethylenes, *Propenes, *Relaxation time, Crystallization, Transition temperature, *Phase studies, Polyethylene plastics.

The relaxation properties of crystalline polyolefins were investigated over a wide range of temperatures under conditions of sinusoidal force action of constant amplitude. Under such conditions the crystalline polymers were found to possess a broad relaxation spectrum over the entire interval from Tg to Tf. The importance of determining the character of the
(Chemistry--Organic, TT, v. 10, no. 3) (over)

63-14311

I. Kargin, V. A.
II. Sogolova, T. L.
III. Pavlichenko, N. P.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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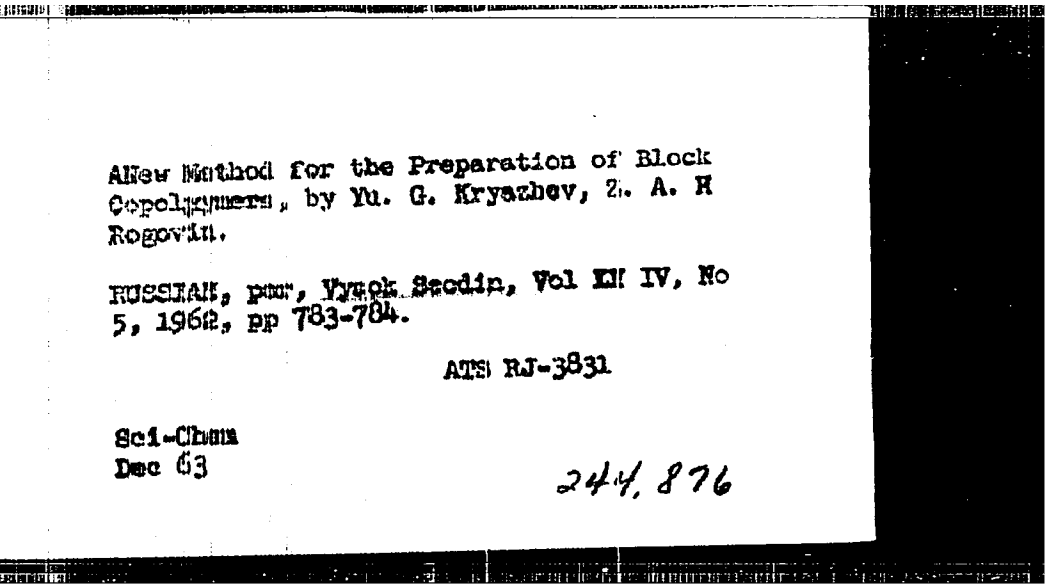


A New Method for the Preparation of Block Copolymers, by Yu. G. Kryazhev, Z. A. N Rogovin.

RUSSIAN, pmr, Vysok Soedin, Vol [illegible] IV, No 5, 1962, pp 783-784.

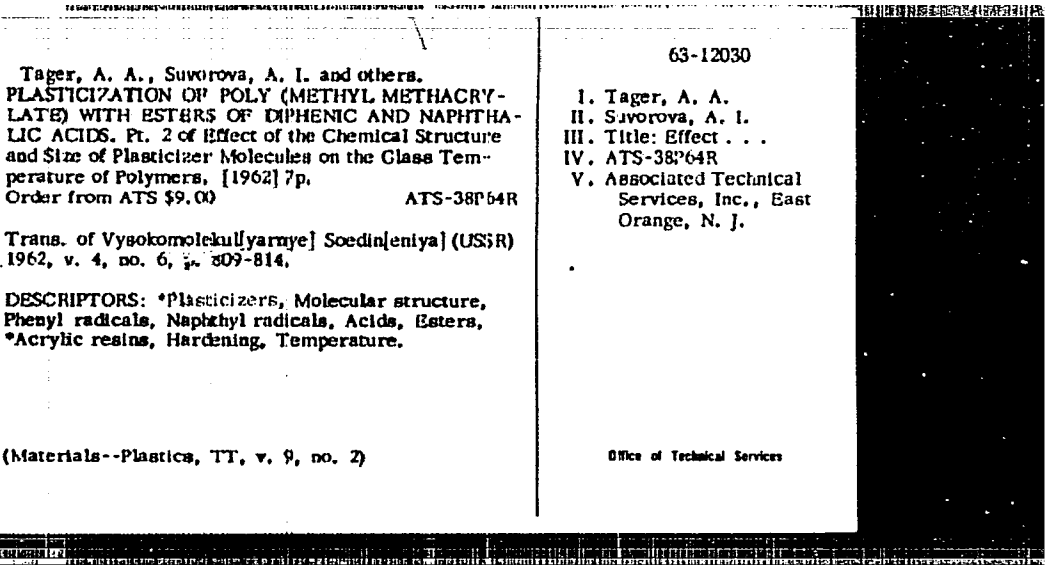
ATS: RJ-3831

Sci-Chem
Dec 63

244,876

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4



Tager, A. A., Suvorova, A. I. and others.
PLASTICIZATION OF POLY (METHYL METHACRYLATE) WITH ESTERS OF DIPHENIC AND NAPHTHALIC ACIDS. Pt. 2 of Effect of the Chemical Structure and Size of Plasticizer Molecules on the Glass Temperature of Polymers. [1962] 7p.
Order from ATS $9.00 ATS-38P64R

Trans. of Vysokomolekul'yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 6, pp. 809-814.

DESCRIPTORS: *Plasticizers, Molecular structure, Phenyl radicals, Naphthyl radicals, Acids, Esters, *Acrylic resins, Hardening, Temperature.

(Materials--Plastics, TT, v. 9, no. 2)

63-12030

I. Tager, A. A.
II. Suvorova, A. I.
III. Title: Effect . . .
IV. ATS-38P64R
V. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Studies of Chelate Polymers, Vol 5, (Chelate Polymers of Bis-dithiocarbamic Acids and Metals, by A. P. Terent'ev, et al.
RUSSIAN, per, Vysokomol. Soed, 1962, Vol 4, No 6, pp 821-827.
NLL 7773.75 1964 (T-R-432) (On Loan)

Aug 65 287,145

OFSTI TT-64-11530

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Nitrogen-containing Polymers with~~HIGH~~ Paramagnetic Properties, by V. I. Mal'tsev.

RUSSIAN, per, Vysok Soedin, Vol I IV, No 6, 1962, pp 848-850.

ATS RJ-3842

Sel-Chem
Dec 63

244.915

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Dudina, L. A. and Enikolopyan, N. S.
INITIATION MECHANISM IN THE THERMAL DEGRADATION OF POLYMERS. [1962] 8p.
Order from ATS $9.65 ATS-39P64R

Trans. of Vysokomolekul [yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 6, p. 869-875.

DESCRIPTORS: *Polymers, Pyrolysis, Chemical reactions.

(Chemistry--Physical, TT, v. 9, no. 2)

63-12029

I. Dudina, L. A.
II. Enikolopyan, N. S.
III. ATS-39P64R
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Korshak, V. V. and Smirnov, R. N.
CHANGE IN THE AGGREGATE STATE OF POLYMERS ON MERCURATION. [1962] 5p.
Order from ATS $8.25 ATS-40P64R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 6, p. 889-893.

DESCRIPTORS: *Polymers, Physical properties, *Mercury.

(Chemistry--Physical, TT, v. 9, no. 2)

63-12031

I. Korshak, V. V.
II. Smirnov, R. N.
III. ATS-40P64R
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Tsvetkov, V. N.
SHAPE ASYMMETRY AND OPTICAL ANISOTROPY OF SHORT MOLECULAR CHAINS. [1962] 8p.
Order from ATS $12.00 ATS-41P64R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 6, p. 894-900.

DESCRIPTORS: *Stereochemistry, Molecular structure, Optics.

(Chemistry--Organic, TT, v. 9, no. 2)

63-12001

I. Tsvetkov, V. N.
II. ATS-41P64R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3588

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Cooperative Phenomena in the Annealing and Softening of PVA, by Yu. Sharonov, M. Vol'kenshtein.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol. 4, No. 6, 1962, pp 917-921.
CSIRO/No.7648

Sci -
Aug 67 335-581

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Molecular Ordering in Polymers, by D. N. Bort, Yu. V. Ovchinnikov, et al, 8 pp.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol IV, 1962, pp 935-939. 9225420
AEC-SC-T-64-1622

Sci-Phys
Dec 64

269,419

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Korshak, V. V., Vinogradova, S. V., and Valetskii, P. M.
MIXED POLYARYLATES FROM TEREPHTHALIC ACID, DIHYDROXYDIPHENYL PROPANE, AND ALIPHATIC POLYHYDRIC ALCOHOLS. Pt. 37 of Heterochain Polyesters. [1963] 8p.
Order from ATS $10.50 ATS-50Q67R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 7, p. 987-994.

DESCRIPTORS: *Esters, *Polymers, Synthesis, Terephthalic acid, Hydroxides, Phenols, Phenyl radicals, Propanes, Alcohols.

(Chemistry--Organic, TT, v. 9, no. 9)

63-12822

I. Title: Heterochain polymers
2. Title: Polyarylates
I. Korshak, V. V.
II. Vinogradova, S. V.
III. Valetskii, P. M.
IV. ATS-50Q67R
V. Title: Heterochain...
VI. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3834

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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Entelis, S. G., Nesterov, O. V., and Bondareva, G. G. INTERFACIAL POLYCONDENSATION OF PHTHALOYL CHLORIDE WITH PIPERAZINE. [1962] 6p. Order from ATS $10.00 ATS-32P66R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 7, p. 995-999.

DESCRIPTORS: Pyrazines, *Chlorides, Condensation reactions, Surfaces.

(Chemistry--Organic, TT, v. 10, no. 2)

63-12607

I. Entelis, S. G.
II. Nesterov, O. V.
III. Bondareva, G. G.
IV. ATS-32P66R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS KT-3855

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Milovskaya, E. B. and Dogopol'skaya, P. I.
THE ROLE OF AMINES IN POLYMERIZATION USING ZIEGLER CATALYSTS. [1963] 6p.
Order from ATS $8.00 ATS-58Q70R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 7, p. 1049-1052.

DESCRIPTORS: *Amines, *Polymerization, Catalysts, Ziegler catalysts.

(Chemistry--Organic, TT, v. 10, no. 6)

63-17779

I. Milovskaya, E. B.
II. Dogopol'skaya, P. I.
III. ATS-58Q70R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3825

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Andrianov, K. A. and Rumba, G. Ya.
THE CATALYTIC POLYMERIZATION OF HEXAMETHYLCYCLOTRISILAZANE AND OCTAMETHYLCYCLOTETRASILAZANE. 28 Sep 62, 7p. 5 refs.
Order from OTS or SLA $1.10 63-10082

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, p. 1060-1063.

DESCRIPTORS: *Polymerization, *Methyl radicals, *Silicon compounds, *Nitrogen compounds, Polymers, Methanes, Catalysis, Synthesis.

The reactions of hexamethylcyclotrisilazane and octamethylcyclotetrasilazane in the presence of alkali were studied, and it was shown that the reaction is accompanied by the evolution of methane and formation of "cyclolinear" polymers. Polymers with molecular chains containing the Si-N-Si bond, with m.p. up to 500°, and good solubility in benzene were synthesized. (Author)

63-10082

I. Andrianov, K. A.
II. Rumba, G. Ya.

(Chemistry--Organic, TT, v. 9, no. 12)
Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Techniques of Obtaining and Evaluating the IR-Spectra of Fibres in Polarised Light, by N. V. Mikhailov, M. V. Shablygin,

RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol. IV, No 8, 1962, pp 1155k-1162.

M MLL M 10004

229,345

Sal - Phys
May 63

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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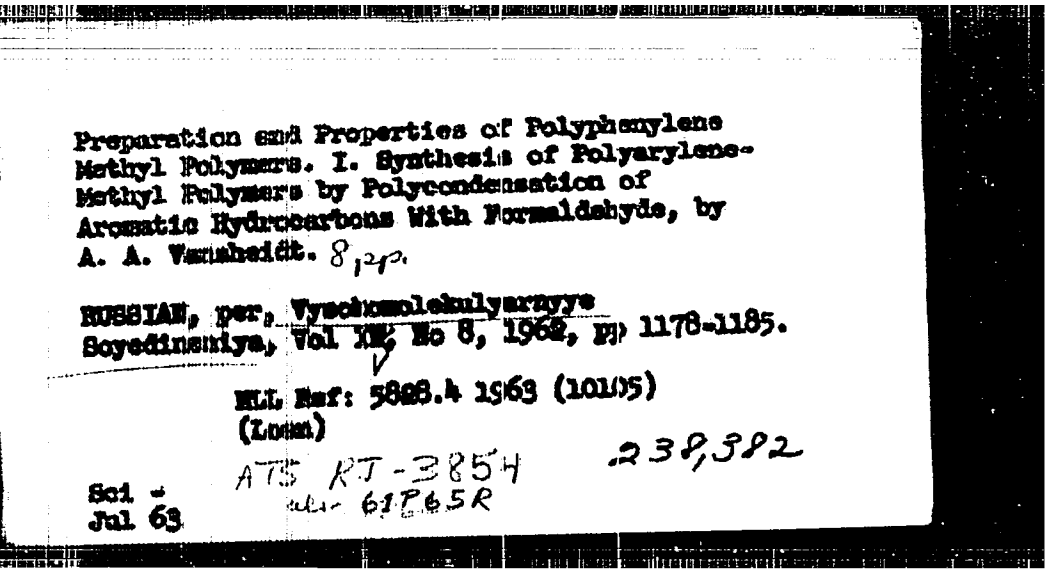

Preparation and Properties of Polyphenylene Methyl Polymers. I. Synthesis of Polyarylene-Methyl Polymers by Polycondensation of Aromatic Hydrocarbons With Formaldehyde, by A. A. Vansheidt. 8 pp.

RUSSIAN, per. Vysokomolekulyarnyye Soyedineniya, Vol XIV, No 8, 1962, pp 1178-1185.

MLL Ref: 5888.4 1963 (101/05)
(Lowm)

ATS RT-3854
abs- 61865R

238,382

Sci -
Jul 63

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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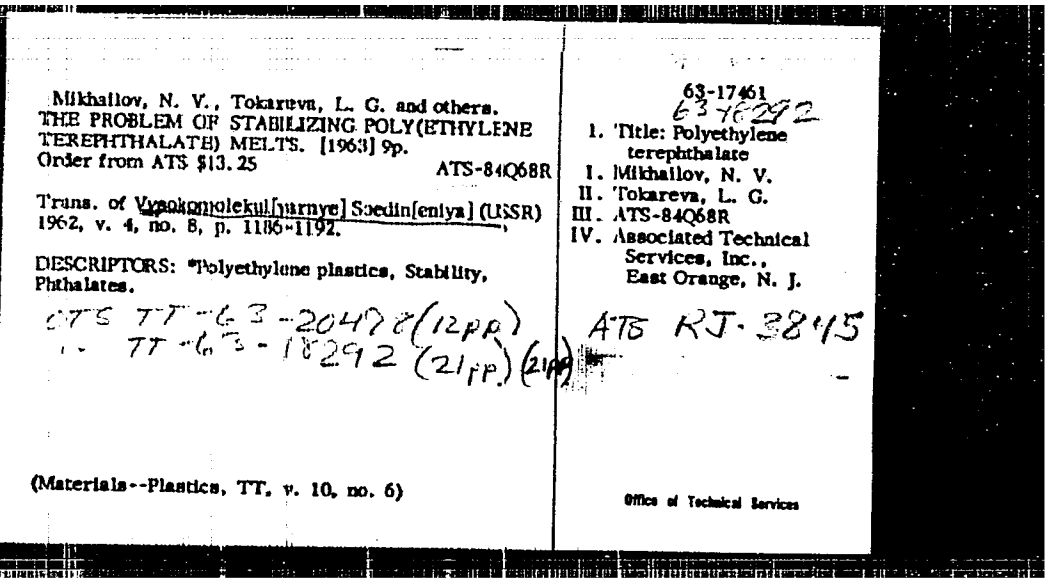

Mikhailov, N. V., Tokareva, L. G. and others.
THE PROBLEM OF STABILIZING POLY(ETHYLENE TEREPHTHALATE) MELTS. [1963] 9p.
Order from ATS $13.25 ATS-84Q68R

Trans. of Vysokomolekul'[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 8, p. 1186-1192.

DESCRIPTORS: *Polyethylene plastics, Stability, Phthalates.

OTS TT-63-20478 (12pp)
TT-63-18292 (21pp) (21pp)

(Materials--Plastics, TT, v. 10, no. 6)

63-17461
63-18292
1. Title: Polyethylene terephthalate
I. Mikhailov, N. V.
II. Tokareva, L. G.
III. ATS-84Q68R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3845

Office of Technical Services

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

E.P.R. Study of the Radiation Vulcanization of Rubber in the Presence of Sulfur and Hexachloroethane, by Z. N. Tarasova.
RUSSIAN, per, Vysokomol Soedin, Vol. 4, No 8, 1962, pp 1204-1208.
Chem Trans 8v 2814

326,335

Sci - Materials
May 67

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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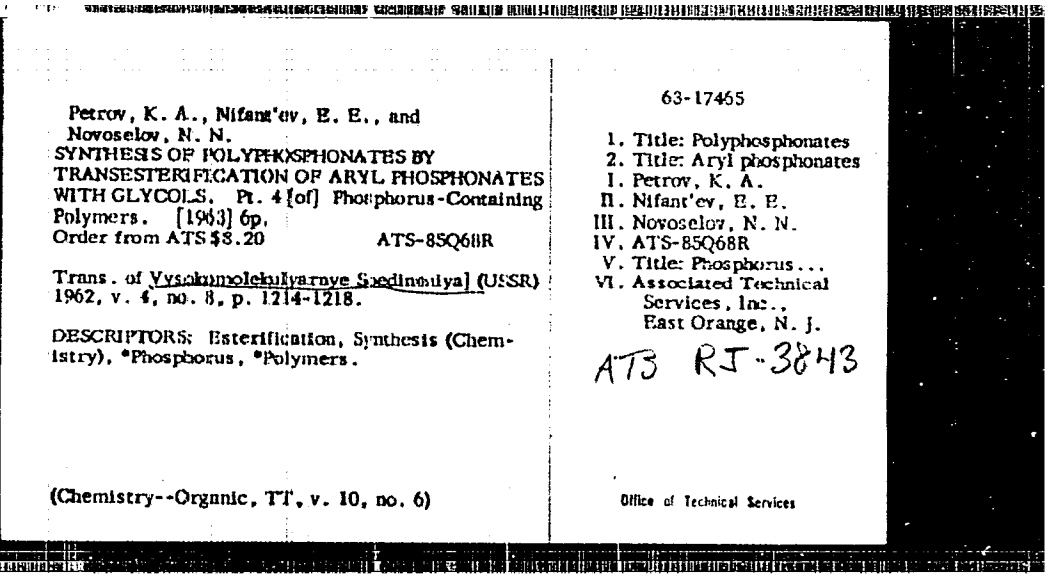

Petrov, K. A., Nifant'ev, E. E., and Novoselov, N. N.
SYNTHESIS OF POLYPHOSPHONATES BY TRANSESTERIFICATION OF ARYL PHOSPHONATES WITH GLYCOLS. Pt. 4 [of] Phosphorus-Containing Polymers. [1963] 6p.
Order from ATS $8.20 ATS-85Q68R

Trans. of Vysokomolekulyarnye Soedineniya] (USSR) 1962, v. 4, no. 8, p. 1214-1218.

DESCRIPTORS: Esterification, Synthesis (Chemistry), *Phosphorus, *Polymers.

(Chemistry--Organic, TT, v. 10, no. 6)

63-17465

1. Title: Polyphosphonates
2. Title: Aryl phosphonates
I. Petrov, K. A.
II. Nifant'ev, E. E.
III. Novoselov, N. N.
IV. ATS-85Q68R
V. Title: Phosphorus...
VI. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3843

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Petrov, K. A., Nifant'ev, E. E. and others. SYNTHESIS OF POLYPHOSPHITES AND POLYPHOSPHONITES FROM GLYCERAL AND PENTAERYTHRITOL. PT. 5 [of] Phosphorus-Containing Polymers. [1963] 5p.
Order from ATS $7.50 ATS-86Q68R

Trans. of Vysokomolekul [yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 8, p. 1219-1222.

DESCRIPTORS: PETN, Phosphites, Synthesis (Chemistry), *Phosphorus, *Polymers.

(Chemistry--Organic, TT, v. 10, no. 6)

63-17464
63-16281
1. Title: Polyphosphonites
2. Title: Glyceral
3. Title: Polyphosphites
I. Petrov, K. A.
II. Nifant'ev, E. E.
III. Title: Phosphorus...
IV. ATS-86Q68R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3844
OTS 63-16281

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Synthesis of Graft Copolymers, by
V. V. Korshak.
RUSSIAN, per, Vysokomolekulyarnye
Soedineniya, Vol 4, No 10, 1962,
pp 1469-1473
NTC 72-12393-11I

July 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Kinetics of Reactions of Saturated Hydrocarbon Polymers Initiated by Peroxides, by R. Rado.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol 4, No 11, 1962, pp 1746-1751.
NTC 72-11263-07C

May 72

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

POLYMER SCIENCE USSR, 1963, VOL. 4, NO. 3, P. 397-600. Sep 63, 1v.
Order from PP $140.00/year (single articles available)

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1303-1309, 1324-1332, 1338-1344, 1354-1374, 1380-1384, 1390-1393; no. 10, p. 1486-1502, 1515-1527, ##1528-1536; no. 11, p. 1654-1671, ##1682-1695, 1739-1745; no. 12, p. 1770-1783, 1796-1798, 1806-1811, ##1822-1828. Abstracts are included of selected articles from v. 4, no. 11-v. 5, no. 2.
##Other translations are available elsewhere.

Separate entries have been prepared for the individual articles included in this issue.

DESCRIPTORS: *Polymers, Chemistry.

(Chemistry--Organic, TT, v. 11, no. 1)

TT-63-22211-3

I. Pergamon Press, Inc., New York

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Vansheidt, A. A., Mel'nikova, E. P., and Gladkovskii, G. A.
THE PREPARATION AND PROPERTIES OF POLYMERS OF THE TYPE OF POLYPHENYLENEMETHYL. II. THE PREPARATION OF POLYARYLENEMETHYLS BY POLYCONDENSATION OF AROMATIC HYDROCARBONS WITH THEIR bis-ACETOXY AND bis-CHLOROMETHYL DERIVATIVES. Sep 63, 8p 4refs Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 397-404

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1303-1309. (Abstract available)

DESCRIPTORS: *Phenolic plastics, Preparation, *Benzene derivatives, Tolyl radicals, Methyl radicals, *Toluenes, Alkoxy radicals, Chlorides, Polymerization, Condensation reactions, Physical properties.

(Materials--Plastics, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 397-404)

1. Title: Durene
2. Title: Polyarylene-methyls
I. Vansheidt, A. A.
II. Mel'nikova, E. P.
III. Gladkovskii, G. A.
IV. Title: Preparation...

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Bartenev, G. M. and Vishnitskaya, L. A.
COMPARISON OF VARIOUS EQUATIONS FOR THE DEFORMATION OF NETWORK POLYMERS WITH EXPERIMENT. Sep 63, 11p 30refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 404-414

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1324-1332.

DESCRIPTORS: *Polymers, *Vulcanizates, *Rubber, *Synthetic rubber, Deformation, Elasticity, Rupture, Equations.

(Materials--Rubber, TT, v. 11, no. 1)

TT-63-22211-3 (p. 404-414)

I. Bartenev, G. M.
II. Vishnitskaya, L. A.

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Kovalevskaya, R. N., Tinyakova, E. I., and Dolgoplosk, B. A.
A STUDY OF HETEROGENEOUS CATALYST SYSTEMS BASED ON COBALT OXIDES AND SALTS AND ORGANO-ALUMINUM COMPOUNDS. Sep 63, 8p 15refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 414-421

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1338-1344. (Abstract available)

DESCRIPTORS: *Ziegler catalysts, *Cobalt catalysts, Oxides, Salts, *Aluminum compounds, Alkyl radicals, Ethyl radicals, Halides, Dienes, *Butadienes, Polymerization, *Ethanes, *Ethylenes, Complex compounds.

(Chemistry--Organic, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 414-421)

I. Kovalevskaya, R. N.
II. Tinyakova, E. I.
III. Dolgoplosk, B. A.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Studies In Polymer Synthesis. Part 7. Photooxidative Activation of a Polyesther-Acrylate Oligomer by the Visible Region of the Spectrum, by G. P. Gladyshev, S. R. Rafikov.

RUSSIAN, pmr, Vysok Soedin, Vol IV, NO 9, 1962, pp 1351-1353.

ATS RJ-3833

Sci-Chem
Dec 63

244.877

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Golubenkova, L. I., Shabadash, A. N., Nikonova, S. N., and Akutin, M. S.
THE GRAFTING OF POLYMERS TO SOLID SURFACES. I. AN INFRARED STUDY OF THE INTERACTION OF ORGANOSILICON COMPOUNDS AND GLASS. Sep 63, 8p 16refs
Order from PP $1.40.00/year in Polymer Science USSR, v. 4, no. 3, p. 422-429

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1354-1360. (Abstract available)

DESCRIPTORS: *Composite materials, *Glass textiles, *Binders, *Silanes, Methyl radicals, Chlorides, Plastics, Chemical bonds, Infrared spectroscopy.

When the microporous glass is treated with trimethylchlorosilane a stable chemical bond is formed that is
(Materials--Adhesives, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 422-429)

I. Title: Trimethyl chlorosilane
I. Golubenkova, L. I.
II. Shabadash, A. N.
III. Nikonova, S. N.
IV. Akutin, M. S.
V. Title: Infrared...

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Bakalo, L. A., Krentsel', B. A., and Topchiev, A. V. POLYMERIZATION OF SOME ORGANIC OXIDES. I. POLYMERIZATION OF EPICHLOROHYDRIN. Sep 63, 8p 11refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 429-435

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1361-1365. (Abstract available)

DESCRIPTORS: *Epoxy plastics, *Halohydrins, Polymerization, *Catalysts, *Iron catalysts, Chlorides, Propenes, Oxides.

A study was made of the polymerization of epichlorohydrin by a number of ionic catalytic systems. It is shown that the $FeCl_3$-propylene oxide "complex" catalyst can be used to produce polyepichlorohydrin of regular structure in good yield. The principal
(Materials--Plastics, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 429-435)

1. Title: Epichlorohydrin
2. Title: Polyepichlorohydrin
I. Bakalo, L. A.
II. Krentsel', B. A.
III. Topchiev, A. V.
IV. Title: Polymerization...

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Mitsengendler, S. P., Andreeva, G. A., Sokolova, K. I., and Korotkov, A. A.
THE SYNTHESIS OF GRAFT COPOLYMERS BY THE ACTION OF POLYMERIC ORGANOMETALLIC COMPOUNDS ON POLAR POLYMERS AND A STUDY OF THEIR PROPERTIES. I. STYRENE-METHYL METHACRYLATE GRAFT COPOLYMERS. Sep 63, 10p 6refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 436-445

Trans. of Vysokomolekuljarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1366-1374. (Abstract available)

DESCRIPTORS: *Graft polymers, *Styrene plastics, *Acrylic resins, Copolymerization, Catalysts, *Metalorganic compounds, Styrenes, *Lithium compounds.

(Materials--Plastics, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 436-445)

I. Mitsengendler, S. P.
II. Andreeva, G. A.
III. Sokolova, K. I.
IV. Korotkov, A. A.
V. Title: Styrene-methyl...

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Ermolina, A. V., Igonin, L. A., and Kargin, V. A. A STUDY OF THE RELATIONSHIP BETWEEN PHYSICO-MECHANICAL PROPERTIES AND THE NATURE OF THE SECONDARY STRUCTURES IN CRYSTALLINE POLYMERS. II. A PHOTOMICROGRAPHIC STUDY OF SPHERULITE STRUCTURES IN POLYAMIDE 68 IN BULK. Sep 63, 7p 12refs Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 446-452.

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1380-1384. (Abstract available)

DESCRIPTORS: *Polyamide plastics, Physical properties, Mechanical properties, Microstructure, Stresses, Photomicrography.

By means of the etching method a study has been made of the secondary structures of Polyamide 68 in relation (Materials--Plastics, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 446-452)

I. Ermolina, A. V.
II. Igonin, L. A.
III. Kargin, V. A.
IV. Title: Photomicrographic...

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Lipatova, T. E., Budnikova, V. A., and Lipatov, Yu. S.
THE INTERACTION OF POLYMERS WITH FILLERS. PT. 5. EFFECT OF THE CONDITIONS OF POLYMER APPLICATION TO GLASS FIBERS AND OF THE TREATMENT OF GLASS FIBERS ON THE POLYMER PROPERTIES. [1963] 7p.
Order from ATS $12.00 ATS-56P66R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 9, p. 1398-1403.

DESCRIPTORS: *Glass textiles, *Polymers, Additives.

(Materials--Textiles, TT, v. 9, no. 12)

63-12815

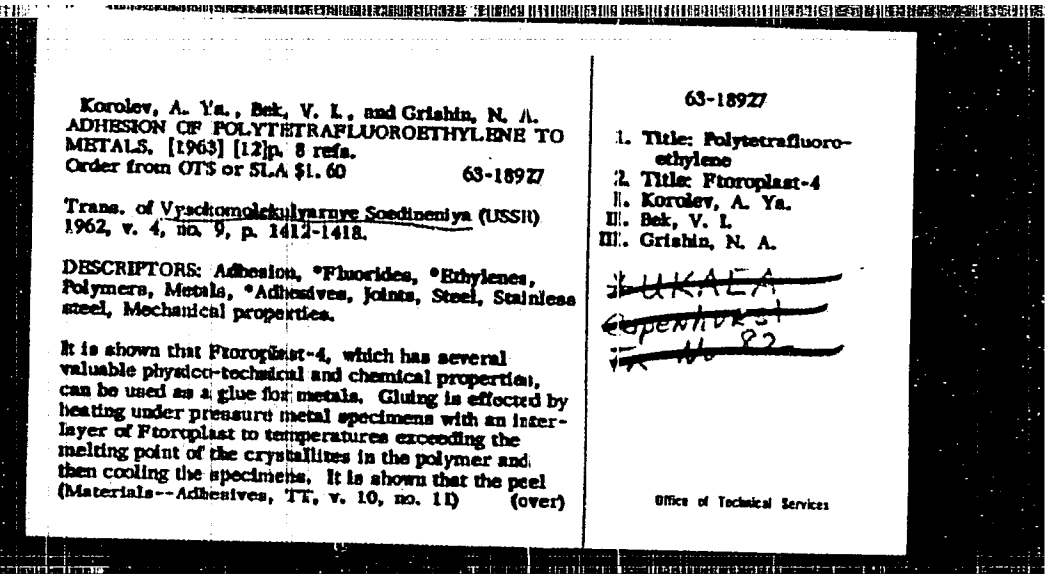
I. Lipatova, T. E.
II. Budnikova, V. A.
III. Lipatov, Yu. S.
IV. ATS-56P66R
V. Associated Technical Services, Inc., East Orange, N. J.
VI. Title: Glass...

ATS RJ-3385

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4



Korolev, A. Ya., Bek, V. L., and Grishin, N. A. ADHESION OF POLYTETRAFLUOROETHYLENE TO METALS. [1963] [12]p. 8 refs.
Order from OTS or SLA $1.60 63-18927

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 9, p. 1412-1418.

DESCRIPTORS: Adhesion, *Fluorides, *Ethylenes, Polymers, Metals, *Adhesives, Joints, Steel, Stainless steel, Mechanical properties.

It is shown that Ftoroplast-4, which has several valuable physico-technical and chemical properties, can be used as a glue for metals. Gluing is effected by heating under pressure metal specimens with an interlayer of Ftoroplast to temperatures exceeding the melting point of the crystallites in the polymer and then cooling the specimens. It is shown that the peel (Materials--Adhesives, TT, v. 10, no. 11) (over)

63-18927

1. Title: Polytetrafluoroethylene
2. Title: Ftoroplast-4
II. Korolev, A. Ya.
III. Bek, V. L.
III. Grishin, N. A.

[illegible]

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Synthesis of Graft Copolymers, IX.,
by V. V. Korshak.
RUSSIAN, per, Vysokololekul. Soedin, Vol 4,
No 10, 1962, pp 1469-1473.
Chem Trans Sv 3139

Sci - Chemistry
Apr 67 324,643

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Zelenev, Yu. V.
THE RELATIONSHIP BETWEEN THE STRUCTURE AND DYNAMIC PROPERTIES OF RUBBER-LIKE NETWORK POLYMERS OVER A WIDE RANGE OF TEMPERATURES. Sep 63, 10p 13refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 457-466

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1486-1494.

DESCRIPTORS: Polymers, *Rubber, *Synthetic rubber, Mechanical properties, Elasticity, Molecular structure, Thermodynamics.

(Materials--Rubber, TT, v. 11, no. 1)

TT-63-22211-3 (p. 457-466)

1. Zelenev, Yu. V.

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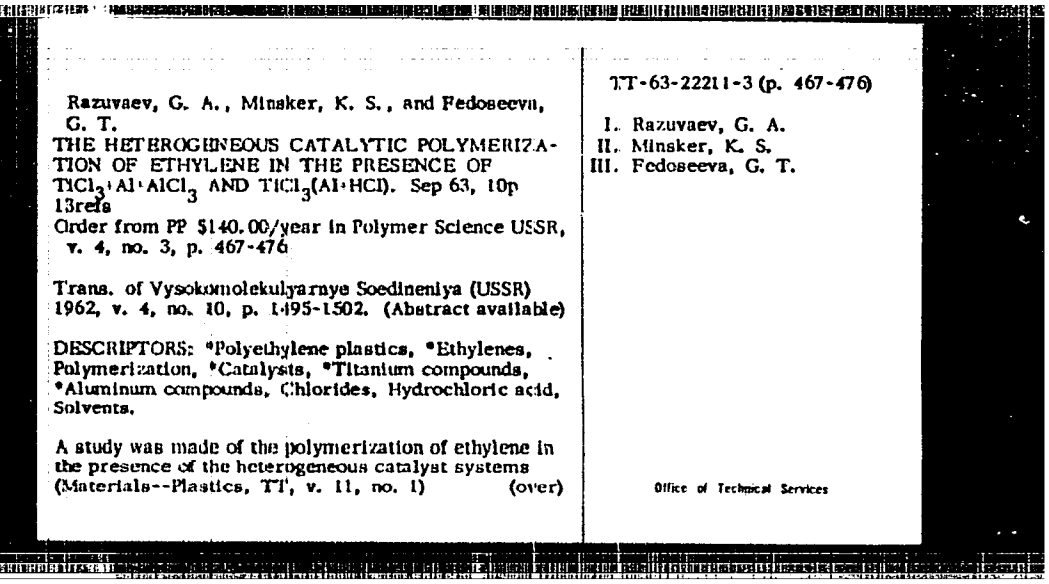
APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4



Razuvaev, G. A., Minsker, K. S., and Fedoseeva, G. T.
THE HETEROGENEOUS CATALYTIC POLYMERIZATION OF ETHYLENE IN THE PRESENCE OF $TiCl_3$·Al·$AlCl_3$ AND $TiCl_3$(Al·HCl). Sep 63, 10p 13refs
Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 467-476

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1495-1502. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Ethylenes, Polymerization, *Catalysts, *Titanium compounds, *Aluminum compounds, Chlorides, Hydrochloric acid, Solvents.

A study was made of the polymerization of ethylene in the presence of the heterogeneous catalyst systems (Materials--Plastics, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 467-476)

I. Razuvaev, G. A.
II. Minsker, K. S.
III. Fedoseeva, G. T.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Matsoyan, S. G., Ilyazyan, M. A., and Gevorkyan, E. Ts.
STUDIES IN CYCLIC POLYMERIZATION AND COPOLYMERIZATION. X. A STUDY OF THE ABILITY OF SOME ALIPHATIC DIVINYLACETALS TO UNDERGO CYCLIC POLYMERIZATION. Sep 63, 6p 7refs
Order from IP $-40.00/year in Polymer Science USSR, v. 4, no. 3, p. 476-481

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1515-1519. (Abstract available)

DESCRIPTORS: *Acetal plastics, Aliphatic compounds, *Vinyl radicals, Aldehydes, Acetals, Polymerization.

Divinylcaproinal, divinyloenanthal, divinyl-3-methoxy-propanal, divinyl-3-ethoxypropanal, divinyl-3-n-propoxypropanal, divinyl-3-(-chloro-ethyl)propanal (Materials--Plastics, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 476-481)

I. Matsoyan, S. G.
II. Ilyazyan, M. A.
III. Gevorkyan, E. Ts.
IV. Title: Study...

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Korolev, G. V., Berlin, A. A., and Kefeli, T. Ya. POLYMERIZATION IN HIGHLY VISCOUS MEDIA AND THREE-DIMENSIONAL POLYMERIZATION. II. THE INITIAL STAGE OF POLYMERIZATION OF POLYESTER-ACRYLATES. Sep 63, 9p 11refs Order from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 482-490

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1520-1527. (Abstract available)

DESCRIPTORS: *Acrylic resins, Acrylic acid esters, *Polymerization, Reaction kinetics, *Catalysts, Carbonates, Degradation.

The initial rate, w_o of polymerization (initiated by dicyclohexylperoxydicarbonate) of polyester-acrylate oligomers was measured by the thermometric method at 50°. The oligomers differed in the length and nature (Chemistry--Physical, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 482-490)

I. Korolev, G. V.
II. Berlin, A. A.
III. Kefeli, T. Ya.
IV. Title: Initial...

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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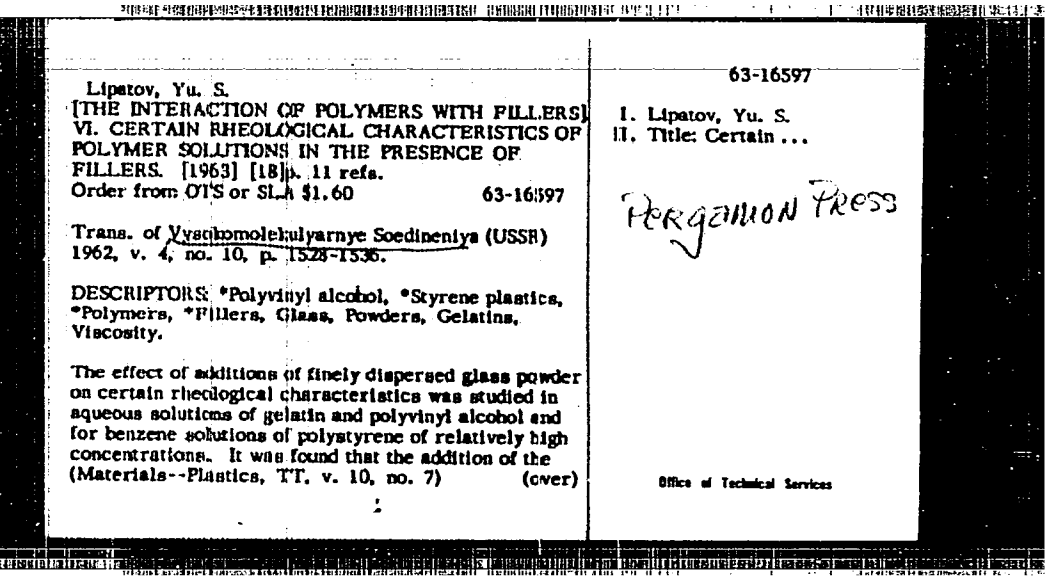

Lipatov, Yu. S.
[THE INTERACTION OF POLYMERS WITH FILLERS] VI. CERTAIN RHEOLOGICAL CHARACTERISTICS OF POLYMER SOLUTIONS IN THE PRESENCE OF FILLERS. [1963] [18]p. 11 refs.
Order from OTS or SLA $1.60 63-16597

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 10, p. 1528-1536.

DESCRIPTORS: *Polyvinyl alcohol, *Styrene plastics, *Polymers, *Fillers, Glass, Powders, Gelatins, Viscosity.

The effect of additions of finely dispersed glass powder on certain rheological characteristics was studied in aqueous solutions of gelatin and polyvinyl alcohol and for benzene solutions of polystyrene of relatively high concentrations. It was found that the addition of the
(Materials--Plastics, TT, v. 10, no. 7) (over)

63-16597

I. Lipatov, Yu. S.
II. Title: Certain ...

Pergamon Press

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Synthesis of Graft Copolymers. 10. The Grafting of Styrene onto Polyethyleneteraphthalate (Lavsan). 11. The Grafting of Vinyl Monomers onto Silk and Wool, by V. Korshak.
RUSSIAN, per, Vysokomolekulyarnya Soedineniya,
Vol. 4, No. 11, 1962, pp 1625-1638
CSIRO/No. 6907

Sci -
Aug 67

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[redacted]-292

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Chemical Reactions of Polymers. VIII. Degradation of Polyhexamethylene Adipamide at High Temperatures, by S. R. Rafikov.

RUSSIAN, per, Vysokomol Soedin, Vol IV, No 11, 1962, pp 1639-1646.

NLL Ref: 5828.4 1963 (10 382)
(Loan)

Rcl - M/M
Oct 63

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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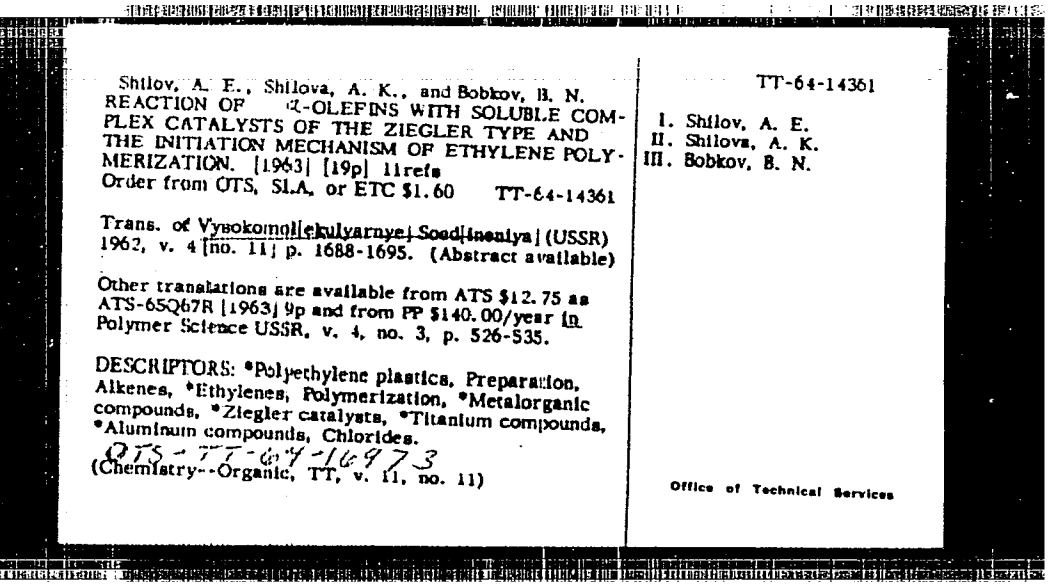

Shilov, A. E., Shilova, A. K., and Bobkov, B. N.
REACTION OF α-OLEFINS WITH SOLUBLE COMPLEX CATALYSTS OF THE ZIEGLER TYPE AND THE INITIATION MECHANISM OF ETHYLENE POLYMERIZATION. [1963] [19p] 11refs
Order from OTS, SLA, or ETC $1.60 TT-64-14361

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4 [no. 11] p. 1688-1695. (Abstract available)

Other translations are available from ATS $12.75 as ATS-65Q67R [1963] 9p and from PP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 526-535.

DESCRIPTORS: *Polyethylene plastics, Preparation, Alkenes, *Ethylenes, Polymerization, *Metalorganic compounds, *Ziegler catalysts, *Titanium compounds, *Aluminum compounds, Chlorides.
OTS-TT-64-14973
(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-14361

I. Shilov, A. E.
II. Shilova, A. K.
III. Bobkov, B. N.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Shilov, A. E., Shilova, A. K., and Bobkov, B. N. REACTION OF α-OLEFINS WITH SOLUBLE ZIEGLER-TYPE COMPLEX CATALYSTS AND THE INITIATION MECHANISM OF ETHYLENE POLYMERIZATION. [1963] 9p.
Order from ATS $1.75 ATS-65Q67R

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 11, p. 1688-1695.

DESCRIPTORS: *Ethylenes, Polymerization, *Catalysts, Solubility, Chemical reactions, Ziegler catalysts.

(Chemistry--Organic, TT, v. 10, no. 6)

63-17469

I. Shilov, A. E.
II. Shilova, A. K.
III. Bobkov, B. N.
IV. ATS-65Q67R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS RT-3824
PERGAMON PRESS

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Shreiner, S. A., Zubov, P. L., and Volkova, T. A.
INTERNAL STRESSES IN EPOXY RESIN FILMS.
[1963] [6p] 8refs
Order from OTS or SLA $1.10 63-20272

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1962, v. 4 [no. 11] p. 1714-1717.

DESCRIPTORS: *Epoxy plastics, *Thermal stresses, *Plastic films, Hardening.

The increase and relaxation of stresses in epoxy resin ED-5 films in relation to their hardening temperature was investigated by a visual optical method. Thermal stresses arise at elevated temperatures. The relaxation of these stresses proceeds according to Shvedov's equation. The relaxation periods depend upon the nature of the hardening agent. With films formed in the presence of polyethylenepolyamine, equal and non-
(Materials--Plastics, TT, v. 10, no. 10) (over)

63-20272

I. Shreiner, S. A.
II. Zubov, P. L.
III. Volkova, T. A.

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Korshak, V. V., Frunze, T. M., and Krasnyanskaya, E. A.
HETEROCHAIN POLYAMIDES. XXXI. EFFECT OF THE CYCLIZING CAPACITY OF MONOMERS ON THE POLYMER CHAIN TERMINATION PROCESS.
[1963] 10p (figs formulae omitted) 13refs
Order from OTS, SLA, or ETC $1.10 TT-63-20847

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 12, p. 1761-1769.

DESCTIPTORS: *Amides, *Polymers, *Polyamide plastics, Carboxylic acids, Amines, *Adipic acid, Polymerization, *Ethylene amines, *Succinic acid.

(See also TT-60-22693)

(Chemistry--Organic, TT, v. 11, no. 10)

TT-63-20847

1. Title: Hetero-chain polymers
I. Korshak, V. V.
II. Frunze, T. M.
III. Krasnyanskaya, E. A.
IV. Title: Effect...

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Skuratov, S. M., Enikolopyan, N. S., Bonetskaya, A. K., and Voevodskii, V. V.
THE MECHANISM OF POLYMERIZATION OF LACTAMS. Sep 63, 10p 13refs
Order from IP $140.00/year in Polymer Science USSR, v. 4, no. 3, p. 543-552

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 12, p. 1770-1778. (Abstract available)

DESCRIPTORS: *Polyamide plastics, *Lactams, *Polymerization, Reaction kinetics, Phosphoric acids, Sodium compounds, Hydroxides.

Experimental results are given from a study of the kinetics of polymerization of ε-caprolactam and ζ-oenantholactam at 231.5° in the presence of: (a) water, (b) water and phosphoric acid, and (c) water and NaOH. The basic kinetic scheme of the polymerization (over)

(Chemistry--Physical, TT, v. 11, no. 1)

TT-63-22211-3 (p. 543-552)

1. Title: ε-Caprolactam
2. Title: ζ-Oenantholactam
I. Skuratov, S. M.
II. Enikolopyan, N. S.
III. Bonetskaya, A. K.
IV. Voevodskii, V. V.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Enikolopyan, N. S., Bonetskaya, A. K., and Skuratov, S. M.
THE INDUCTION PERIOD IN THE POLYMERIZATION OF ε-CAPROLACTAM AND ζ-OENANTHOLACTAM UNDER VARIOUS CONDITIONS. Sep 63, 6p 3refs
Order from PP $1.40.00/year in Polymer Science USSR, v. 4, no. 3, p. 553-558

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 12, p. 1779-1783. (Abstract available)

DESCRIPTORS: *Polyamide plastics, *Lactams, Polymerization, Reaction kinetics.

The experimentally determined length of the induction period in the polymerization of ε-caprolactam and ζ-oenantholactam is explained in terms of the basic kinetic scheme of the process proposed previously. (Author)
(Chemistry--Physical, TT, v. 11, no. 1)

TT-63-22211-3 (p. 553-558)

I. Title: ε-Caprolactam
II. Title: ζ-Oenantholactam
I. Enikolopyan, N. S.
II. Bonetskaya, A. K.
III. Skuratov, S. M.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Studying Vulcanization of Fluoro-Copolymers With Polyamines by Infrared Spectroscopy Method, by A. S. Novikov, F. A. Galil-Ogly, 11 pp.
RUSSIAN, per, Vysokmol Soyed, Vol IV, No 11, 1962, pp 1799-1804. 9699626
FTD-TT-65-1371

Sci - Biol & Med Sci
Feb 66

296,351

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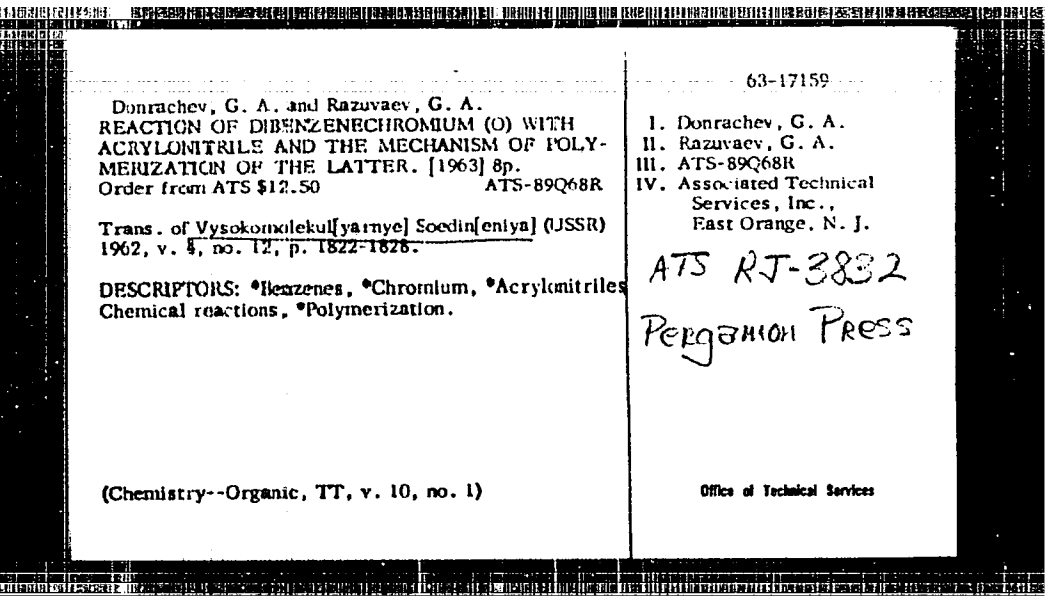

Donrachev, G. A. and Razuvaev, G. A.
REACTION OF DIBENZENECHROMIUM (O) WITH ACRYLONITRILE AND THE MECHANISM OF POLYMERIZATION OF THE LATTER. [1963] 8p.
Order from ATS $12.50 ATS-89Q68R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 12, p. 1822-1826.

DESCRIPTORS: *Benzenes, *Chromium, *Acrylonitriles, Chemical reactions, *Polymerization.

(Chemistry--Organic, TT, v. 10, no. 1)

63-17159

I. Donrachev, G. A.
II. Razuvaev, G. A.
III. ATS-89Q68R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3832

Pergamon Press

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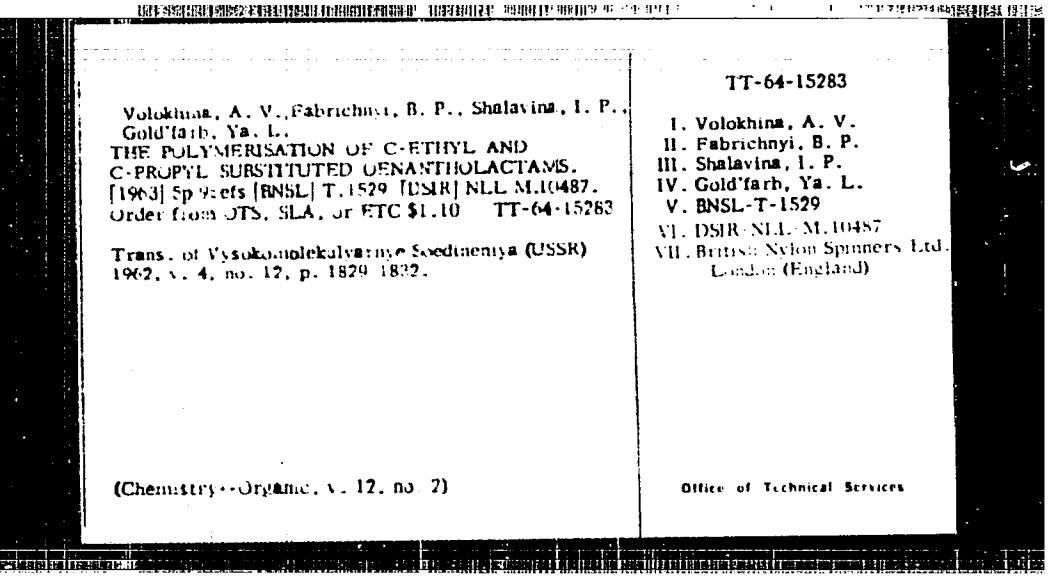

Volokhina, A. V., Fabrichnyi, B. P., Shalavina, I. P., Gold'farb, Ya. L.
THE POLYMERISATION OF C-ETHYL AND C-PROPYL SUBSTITUTED OENANTHOLACTAMS.
[1963] Sp 9:efs [BNSL] T.1529 [DSIR] NLL M.10487.
Order from OTS, SLA, or ETC $1.10 TT-64-15283

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1962, v. 4, no. 12, p. 1829-1832.

(Chemistry--Organic, v. 12, no 2)

TT-64-15283

I. Volokhina, A. V.
II. Fabrichnyi, B. P.
III. Shalavina, I. P.
IV. Gold'farb, Ya. L.
V. BNSL-T-1529
VI. DSIR-NLL-M.10487
VII. British Nylon Spinners Ltd. London (England)

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Razuvaev, G. A., Minaker, K. S., and Shapiro, I. Z.
COPOLYMERIZATION OF STYRENE WITH PROPYLENE IN THE PRESENCE OF A HETEROGENEOUS ZIEGLER-NATTA CATALYTIC SYSTEM. [1963] 6p.
Order from ATS $8.80 ATS-05Q69R

Trans. of Vyzokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 12, pp. 1833-1838.

DESCRIPTORS: *Copolymerization, Styrenes, *Propenes, Catalysts, Ziegler catalysts.

(Chemistry--Physical, TT, v. 10, no. 5)

63-17335

I. Title: Natta catalysts
I. Razuvaev, G. A.
II. Minaker, K. S.
III. Shapiro, I. Z.
IV. ATS-05Q69R
V. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3821

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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Kuleznev, V. N. and Igosheva, K. M.
A STUDY OF THE DENSITIES OF POLYMER MIXTURES. [1963] 5p.
Order from ATS $8.25 ATS-60Q70R

Trans. of Vysokomolekul[arnye] Soedin[eniya] (USSR) 1962, v. 4, no. 12, p. 1858-1862.

DESCRIPTORS: *Mixtures, *Polymers, *Density.

(Chemistry--Organic, TT, v. 10, no. 10)

63-22163

I. Kuleznev, V. N.
II. Igosheva, K. M.
III. ATS-60Q70R
IV. Associated Technical Services, Inc., East Orange, N. J.

NTC 71-14 082-11I

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Induced Electromotive Force and Electrical Strength of Irradiated Polyvinyl Chloride, by V. D. Kuchin, A. K. Shastova, 6 pp.

RUSSIAN, per, Vysokomol Soyedineniya, Vol IV, No 12, 1962, pp 1863-1866.

CIA/FDD XX-1533
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May 64
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Romanov, A. and Lazar, M.
PREPARATION AND IDENTIFICATION OF "ATACTIC POLYPROPYLENE-POLYSTYRENE" GRAFT COPOLYMER. [1963] 6p.
Order from ATS $8.00 ATS-06Q69R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1962, v. 4, no. 12, p. 1867-1871.

DESCRIPTORS: Polymers, *Copolymerization, *Styrene plastics, *Propenes, Graft polymers.

(Chemistry--Organic, TT, v. 10, no. 7)

63-17360

1. Title: Atactic polymers
2. Title: Polypropylene-polystyrene
I. Romanov, A.
II. Lazar, M.
III. ATS-06Q69R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS RJ-3823

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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Polymers Consisting of Aromatic Rings Conjugated With Heteroatoms, by V. I. Nikitina, A.I. Naklakov. 9 p.
RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya; Geterotsepnyye Vysokomolekulyarnyye, 1963, pp 87-90. 9700137
FTD-TT-65-1355

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May 66

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Synergism of Antioxidants. II. Basic Effects of the Action of Antioxidant Mixtures, by M. S. Khloplyankina, 7pp.

RUSSIAN, per. Vysokomol Soedineniya, Vol V, 1963, pp 195-199.

NLL Ref: 5828.4 1963 (5397) (Loan)
OTS TT-63-20280
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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Fedotova, O. Ya., Losev, I. P., and Skripchenko, N. I.
AN INVESTIGATION OF THE REACTION OF AROMATIC DIAMINES WITH DIISOCYANATES. I. INFLUENCE OF CERTAIN FACTORS. [1963]
10p 7refs
Order from OTS or SLA $1.10 63-20060

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1963, v. 5, no. 2, no. 2, p. 222-226.

DESCRIPTORS: Isocyanate plastics, *Isocyanates, Chemical reactions, Titration, Quantitative analysis, *Amines, Reaction kinetics, Benzene derivatives.

The results of the first stage of the study of the laws governing the reaction of diamines with diisocyanates, using the reaction of N,N'-diethyl-4,4'-diamino-diphenylmethane with 1,6-hexamethylenediisocyanate as an example are presented.
(Organic--Chemistry, TT, v. 10, no. 10)

63-20060

I. Fedotova, O. Ya.
II. Losev, I. P.
III. Skripchenko, N. I.
IV. Title: Influence . . .

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Fedotova, O. Ya., Losev, I. P., and Skripchenko, N. I.
AN INVESTIGATION OF THE REACTION OF AROMATIC DIAMINES WITH DIISOCYANATES. II. REACTIVITY OF SOME AROMATIC DIAMINES.
[1963] 11p 8refs
Order from OTS or SLA $1.60 63-20061

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1963, v. 5, no. 2, p. 227-232.

DESCRIPTORS: Benzene derivatives, *Amines, *Isocyanates, *Reaction kinetics, Alkyl radicals, Substitution reactions, Isocyanate plastics, Quantitative analysis.

The results of the study of the relative reactivity of 4,4'-diaminodiphenylmethane, 4,4'-diamino-3,3'-diethyldiphenylmethane, and their N-alkyl substitution products are presented. The reactivity of
(Chemistry--Organic, TT, v. 10, no. 9) (over)

63-20061

I. Fedotova, O. Ya.
II. Losev, I. P.
III. Skripchenko, N. I.
IV. Title: Reactivity . . .

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Maigel'dinov, I. A. and Tsyur, K. I.
THERMOMECHANICAL PROPERTIES OF CRYSTALLINE POLYMERS. I. POLYPROPYLENE. [1964] [19p] 26refs
Order from OTS, SLA, or ETC $1.60 TT-64-10867

Trans. of Vysokomol[ekulyarnye] Soed[inenlya] (USSR) 1963, v. 5, no. 2, p. 243-251.
Another trans. is available from PP $14.00/year in Polymer Science USSR, v. 4, no. 4.

(Physics--Solid State, TT, v. 11, no. 12)

TT-64-10867

I. Maigel'dinov, I. A.
II. Tsyur, K. I.
III. Title: Polypropylene

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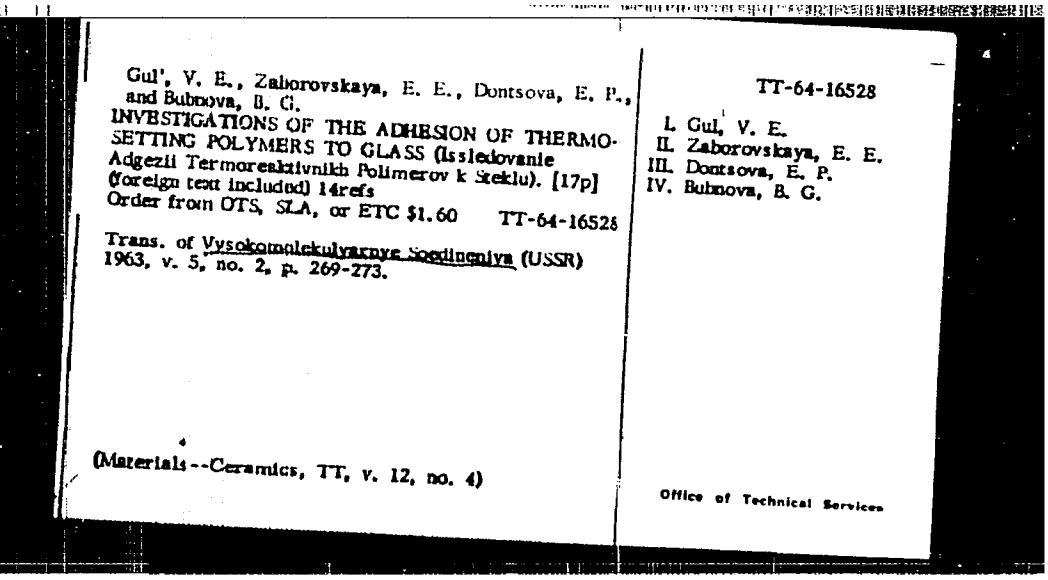

Gul', V. E., Zaborovskaya, E. E., Dontsova, E. P., and Bubnova, B. G.
INVESTIGATIONS OF THE ADHESION OF THERMO-SETTING POLYMERS TO GLASS (Issledovanie Adgezii Termoreaktivnikh Polimerov k Steklu). [17p] (foreign text included) 14refs
Order from OTS, SLA, or ETC $1.60 TT-64-16528

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1963, v. 5, no. 2, p. 269-273.

(Materials--Ceramics, TT, v. 12, no. 4)

TT-64-16528

I. Gul, V. E.
II. Zaborovskaya, E. E.
III. Dontsova, E. P.
IV. Bubnova, B. G.

Office of Technical Services

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ELECTROphysical.
PREPARATION AND ~~ELECTROPHYSI~~AL PROPERITIES OF SOME POLY-SCHIFF BASES BY B. E. DAVYDOV, AND B. A. KRENTSEL', AND ET AL, 5 PP.

RUSSIAN, PER, VYSOKOMOLEKULYARNYYE SOYEDINENIYA, VOL V, NO 3, 1963, PP 321-324.

JPRS ~~21561~~
21573
ATS RT-3820

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

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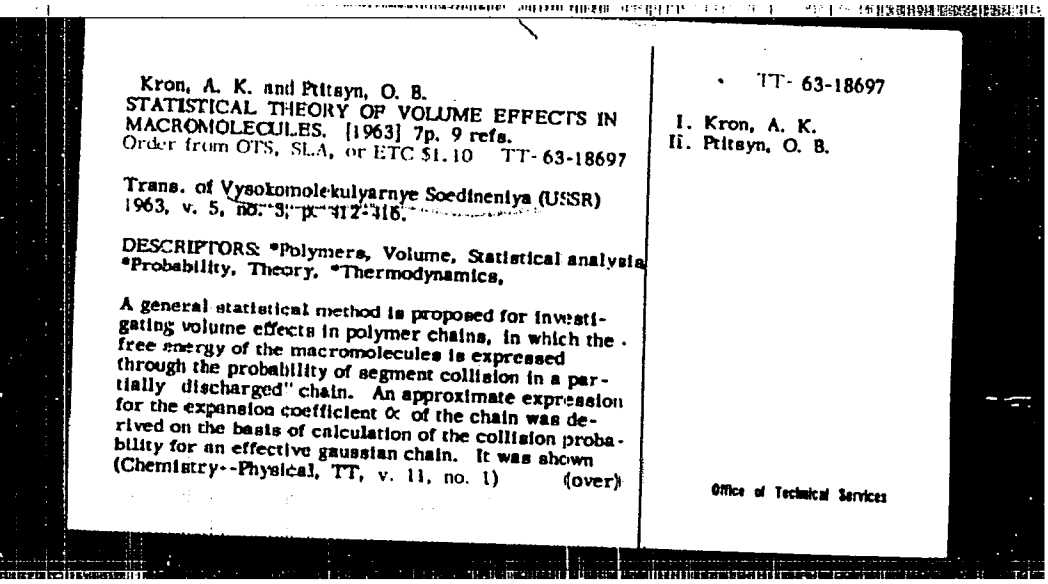

Kron, A. K. and Ptitsyn, O. B.
STATISTICAL THEORY OF VOLUME EFFECTS IN MACROMOLECULES. [1963] 7p. 9 refs.
Order from OTS, SLA, or ETC $1.10 TT-63-18697

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1963, v. 5, no. 3, p. 412-416.

DESCRIPTORS: *Polymers, Volume, Statistical analysis, *Probability, Theory, *Thermodynamics,

A general statistical method is proposed for investigating volume effects in polymer chains, in which the free energy of the macromolecules is expressed through the probability of segment collision in a partially discharged" chain. An approximate expression for the expansion coefficient α of the chain was derived on the basis of calculation of the collision probability for an effective gaussian chain. It was shown (Chemistry--Physical, TT, v. 11, no. 1) (over)

TT- 63-18697

I. Kron, A. K.
II. Ptitsyn, O. B.

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

Rogovin, Z. A. and others.
SYNTHESIS OF NEW CELLULOSE AND OTHER POLYSACCHARDIE DERIVATIVES. XXV. EFFECT OF THE STRUCTURE OF ORGANOPHOSPHOROUS DERIVATIVES OF CELLULOSE ON THE FIRE-PROOFING OF CELLULOSIC MATERIALS. Communication no. 114 of Investigation of the Structure and Properties of Cellulose and its Derivatives. [1964] 10p 10refs
Order from OTS, SLA, or ETC $1.10 TT-64-10868

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR) 1963, v. 5, no. 4, p. 506-511.

See also TT-64-15206

(Chemistry--Organic, TT, v. 11, no. 12)

TT-64-10868

1. Rogovin, Z. A.
II. Title: Effect...
III. Title: Investigation...

Office of Technical Services

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Thermo-Oxidative Degradation and Stabilization of Polyformaldehyde, by V. R. Alishoev, M. B. Newxman, et al.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya, Vol V, No 5, 1963, pp 644-648.
K-H-13327-b

apr 67 323,172

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Kovarskaya, B. M., Akutin, M. S., Sidnev, A. I., Yazvikova, M. P., and Neiman, M. B.
STUDY OF THE THERMOOXIDATIVE DEGRADATION OF POLYCARBONATE. [1964] 7p
Order from ATS $7.50 ATS-76R74R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR) 1963, v. 5, no. 5, p. 649-654.

(Chemistry--Organic, TT, v. 11, no. 12)

TT-64-12753

I. Kovarskaya, B. M.
II. Akutin, M. S.
III. Sidnev, A. I.
IV. Yazvikova, M. P.
V. Neiman, M. B.
VI. ATS-76R74R
VII. Associated Technical Services, Inc., East Orange, N. J.

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Intrinsic Stability of Vinyl Chloride Polymer and Copolymers, by B. I. Fedoseyev, RUSSIAN, per, Vysokomolekul Soedin, Vol 5, No 5, 1963, pp 659-662.
ATS RJ-5028

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Galbraikh, L. S. and Rogovin, Z. A.
SYNTHESIS OF NEW CELLULOSE AND OTHER POLYSACCHARIDE DERIVATIVES. XXVI. SYNTHESIS OF CELLULOSE HYDROXAMIC AND ALGINOHYDROXAMIC ACIDS. Communication no. 116 of Investigation of the Structure and Properties of Cellulose and its Derivatives. [1964] [12p] 14refs
Order from OTS, SLA, or ETC $1.60 TT-64-10865

Trans. of Vysokomol[ekulyarnye] Soed[ineniya] (USSR) 1963, v. 5, no. 5, p. 693-699.

See also TT-64-10868

(Chemistry--Organic, TT, v. 11, no. 12)

TT-64-10865

I. Galbraikh, L. S.
II. Rogovin, Z. A.
III. Title: Synthesis...
IV. Title: Investigation...

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910001-4

U, Mei-Yun and Rogovin, Z. A.
SYNTHESIS OF NEW CELLULOSE AND OTHER POLYSACCHARIDE DERIVATIVES. XXVII. SYNTHESIS OF GRAFT COPOLYMERS OF CELLULOSE AND VINYL-PHOSPHINIC ACID ESTERS. Communication 117 on Investigation of the Structure and Properties of Cellulose and Its Derivatives. 30 Aug 63, 9p 5refs Order from OTS, SLA, or ETC $1.10 TT-64-10866

Trans. of Vysokomol[ekulyarnye] Soed[inenlya] (USSR) 1963, v. 5, no. 5, p. 706-711.

(Materials--Plastics, TT, v. 12, no. 1)

TT-64-10866

I. U, Mei-yun
II. Rogovin, Z. A.
III. Title: Synthesis...
IV. Title: Investigation...

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The Effect of Ultraviolet Radiation on the Kinetics of Creep and Disintegration of Capronne Fibers, by V. R. Regel, N. N. Chernyy, 13 pp.
RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol V, No 6, 1963, pp 925-931. 9697363
FTD-TT-64-1272

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Large Periods in Polyethyleneterephthalate Films,
by A. I. Kitaygorodskiy, D. Yu. Tsvankin, et al.
RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,
Vol V, No 7, 1963, pp 1062-1068.
NASA TT F-8551

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Optical Anisotropy of Stereoisomer Molecules of Polystyrene & Poly-p-Methylstyrene,
by V. N. Tsvetkov, N. N. Boytsova.
RUSSIAN, per, Vysokomolekul Soedin, Vol V, No 8?, 1963.
ERDL, Ft Belvoir T-1723
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Investigation of the Electroconductivity of Polymers. VI. Calculation of Specific Resistances in the Region of Dipole-Radical Polarization, by B. I. XSazhin, D. S. Filippovich, 11 pp.
RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol V, No 8, 1963, pp 1207-1212. 9226324
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The Rheology of Polymers. Investigation of the Rheological Properties of High-Polymer Fusions at High Deformation Rates, by E. E. Glukhov, G. V. Vinogradov, et al, 12 pp.
RUSSIAN, per, Vysokomolekulyarnye Soyedineniya, Vol V, 1963, pp 1543-1548. 9826325
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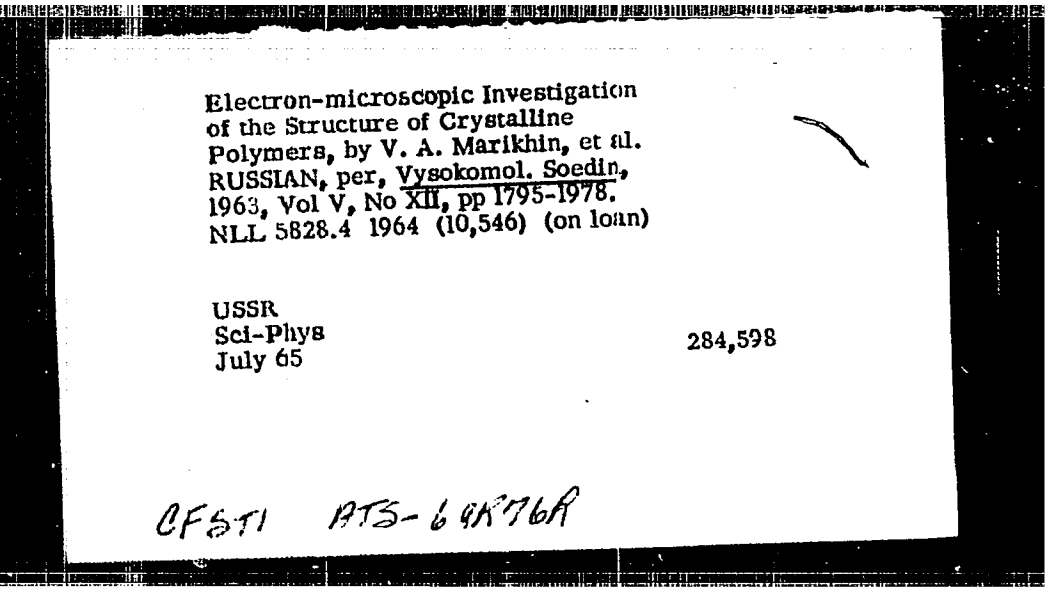

Electron-microscopic Investigation of the Structure of Crystalline Polymers, by V. A. Marikhin, et al. RUSSIAN, per, Vysokomol. Soedin, 1963, Vol V, No XII, pp 1795-1978. NLL 5828.4 1964 (10,546) (on loan)

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Synthesis and Properties of Some Polyamides Containing Reactive Groups, by M.N. Bogdanov.
RUSSIAN, per Vysokomolek. Soedin, Vol. 5, No. 12, 1963, pp 1805-1808
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Study of Structure Formation and Enzymatic Activity of Pepsin and Trypsin Fragments During Autolysis and Electrodialysis, by Z. A. Kapralova, S. Ya. Mirlina, et al, 8 pp.
RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol V, No 12, 1963, pp 1870-1874.

JPRS 23373

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Heterochain Polymers Containing Phosphorus and Oxygen Atoms in the Main Polyphosphinophosphates and Polyphosphinates, by A.N. Pudovik.
RUSSIAN, per Vysokomolek. Soedin, Vol. 6, 1964, pp 259-264
MLL/5828.4 1965 (5660)

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Synthesis, Polymerization, and Copolymerization of Polyorganosiloxanes Containing Methacrylate Groups II. Investigation of Polymerization and Copolymerization by Means of IR Spectra, by I. A. Alekseyeva, et al, 6 pp.
RUSSIAN, per, Vysokomolekulyarnyye Soyedineni, Vol VI, No 2, 1964, pp 265-268. 9695318
DDC RSIC-160

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Nuclear Resonance Spectroscopy of Elastomer Solutions, by N. M. Sergoyev, V. L. Karpov, 7 pp,
RUSSIAN, per Vysokomekulyarnyye Soyed, Vol VI, No 2, 1964, pp 310-313. 9697149
FTD-TT-64-1333.

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